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### 1. [DHP15B-001: Conversion to Universal Plasma](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 2013<sup>1</sup>. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

STTR Defense Health Program Department of Defense

### 2. [DHP15B-002: Laser and Lightwave Therapies for Wound Healing Application](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Since 8 December 2007, the war in the Middle East has seen over 30,000 soldiers injured in combat with the majority of these injuries occurring the last few years [1]. Despite the type of the injury, the majority of the wounded have suffered some degree of soft tissue injury which needs to be addressed. Since these soldiers endure harsh conditions and their wounds are much more likely to become in ...

STTR Defense Health Program Department of Defense

### 3. [MDA15-001: Advanced Cognition Processing and Algorithms for Improved Identification](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Fixed measurements, features, and classifiers preclude systems from changing decision logic based on new information collected during an engagement, since tactical operational environments are often different from those used to collect or generate sample data. This potentially causes sensor bias thus ultimately impacts object classification. In addition, the sample data may vary from the actual da ...

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### 4. [MDA15-002: Kinematic Reach/Containment](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Seek innovative improvements and creative applications of mature product and material technologies that can address increased kinematic performance and containment. Reducing mass while maintaining or increasing performance (more divert delta V or more efficient use of packaged delta V) will increase the kinematic reach and containment of the vehicle. These innovations can range from light weight r ...

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**5. [MDA15-003: System Communications](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

As new missile defense CONOPS are developed, the requirements placed on weapon data links will increase. Lower latencies and higher data rates will be needed as weapons become more agile, targeting error requirements become tighter, and the need for real time data become greater. In order to support future network communications, innovative concepts and technologies are needed to develop mitigatio ...

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**6. [MDA15-004: Lethality Enhancement](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The topic will study the incorporation of innovative reactive materials into a kinetic warhead to increase lethality. Emphasis will be placed on reactive materials that would achieve high reaction temperatures ( $>4000\text{K}$ ) and generate high amounts of chemical energy ( $>2\text{kcal/g}$ ) on impact. The need exists to develop and test reactive materials with varying densities from  $1\text{ g/cm}^3$  to  $10\text{ g/cm}^3$  as substitu ...

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**7. [MDA15-005: Gaming Trainer](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Several missile defense training systems exist to assist the Warfighter in learning and becoming operationally proficient with the system. This topic seeks to take this a step further by leveraging gaming technologies to determine critical areas of performance and to also design a wrapper to encourage the users to "play" the system, exercising those critical components to refine performance. Model ...

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**8. [MDA15-006: Command and Control Human-to-Machine Interface](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Command and control human-to-machine interface is critical to overall missile defense system performance due to human decisions and interactions associated with command and control systems. Recent advances in virtual reality, stereo-graphics, touch screen interfaces, and automated decision aides have the potential to revolutionize how Warfighters interact with command and control systems by provid ...

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**9. [MDA15-008: Improved Track Accuracy for Missile Engagements](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Missile defense performance is dependent on the efficient acquisition, tracking, and discrimination of threatening objects by disparate and geographically dispersed sensors. Precision tracking is a key component for all phases of a missile defense engagement to ensure efficient use of resources and to enhance each component's contribution to the success of such engagements. Candidate solutions s ...

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**10. [MDA15-010: Innovative Methodologies for Modeling Fracture Under High Strain-rate Loading](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Seek high fidelity modeling tools for fracture mechanics that are accurate and cost effective for post intercept debris prediction. Acceptable solutions potentially incorporate improved damage models, meshless methods, "peridynamics," or any combination thereof. Use of first-principles codes to predict the characteristics of post-intercept debris requires prediction of fracture and cracking of ...

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